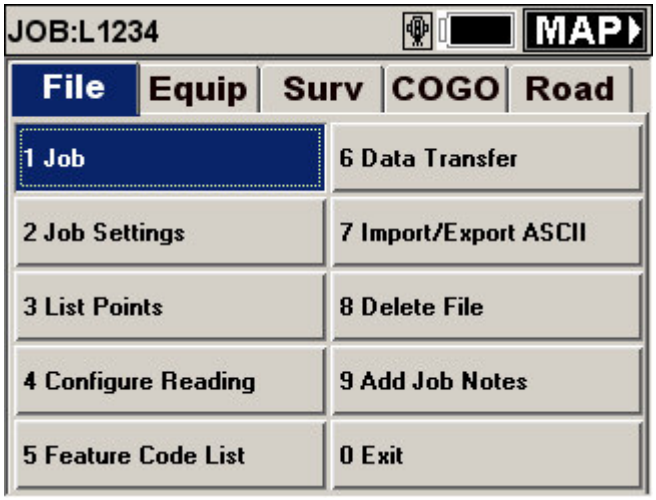
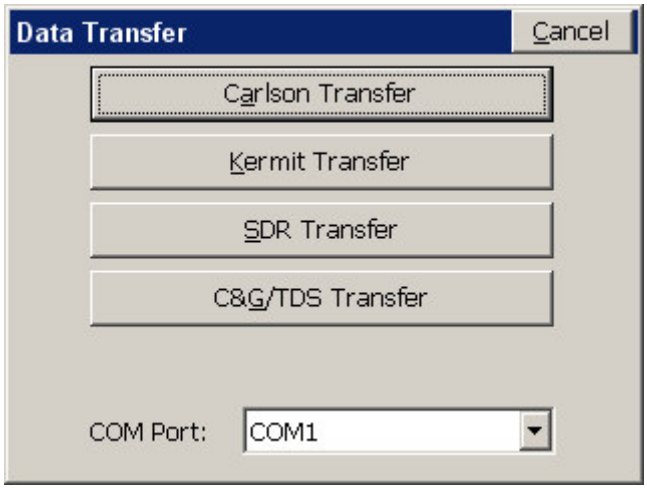
How to Create a SDR file from the Carlson RW5 file Format and Import to CAiCE

Once you have completed topoging for the day you are ready create your SDR file and download into CaiCE. To do this, we will utilize Active Sync, a Microsoft program that connects the data collector to your PC via a USB cable and the cradle. This document was done using an Allegor Collector with Carlson SurvCE software. The procedure is similar for those users who have Trimble TSCE or TDS Ranger collectors running Carlson SurvCE software. If you have any questions uploading using these collectors please contact your regional Survey support or HQ – CAE Survey Support.

From the Main menu screen in SurvCE, shown below,



Click on "**6 Data Transfer**" which will open the following dialog box.
NOTE: This Data Transfer can be done while the data collector is off the cradle, even while your driving back into the office at the end of the day.



Click on the "**SDR Transfer**" which will open the next dialog box shown below,

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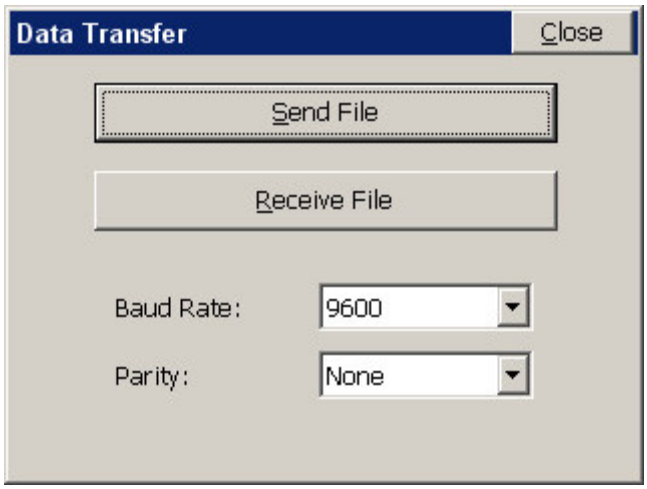
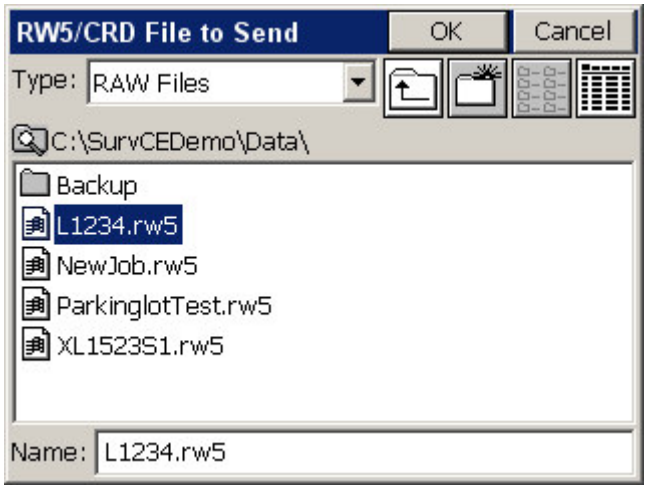


Click on "**Send File.**" The default settings for the Baud Rate and Parity will be correct for the instrument your using. It will open up the dialog box below.



Highlight the ".**rw5**" file that you want to transfer. Then click **OK** or **ENTER** and this box will open. **Important**: Make sure to note the ***path*** so you can find the ".sdr" file that is created. After the SDR Tranfer, SurvCE will create an SDR file with a ".sdr" extension. Hence, in the file above the path will be – C:\SurvCEDemo\Data\L1234.sdr

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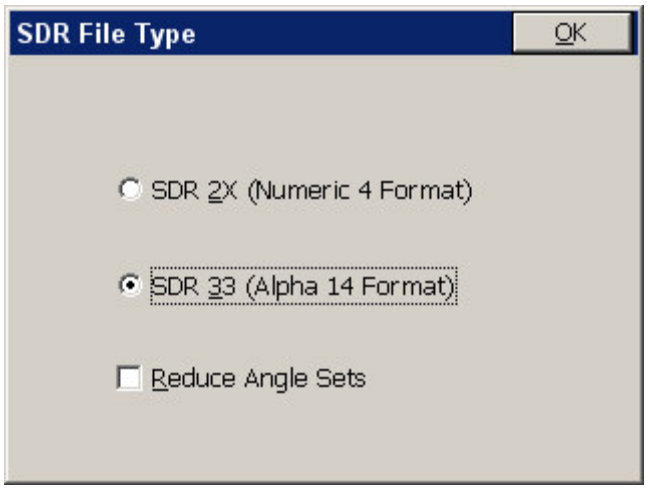

Make sure you have the "**SDR 33 (Alpha 14 Format)"** button ON. And the "Reduce Angle Set" toggled off. **NOTE:** This is very important to leave the "**Reduce Angle Sets**" unchecked for this procedure. Click **OK** on the SDR File Type box and the SDR Transfer box shown below.

After clicking OK, the collector will start downloading and in the process will create an SDR file with the same name as the ".rw5" but will have a ".sdr" extension, instead of the ".rw5." Once the download is completed you will see this box. Click **OK,** then "**Close**" on the **Data Transfer** dialog box.

Now, if it's not already, dock the Collector in the cradle and make sure it connects.
At this point we need to find the **".sdr"** file that was created during the "**SDR Transfer**." I like to open two separate "Windows Explorer" programs on my Office PC so that I can copy and paste the ".sdr" file from the Data Collector's C:/ drive to my PC. First, I'll navigate to the ".sdr" file in the data collector. The following path may be slightly different than your's depending on where you did the "SDR Transfer" too. This is an example;

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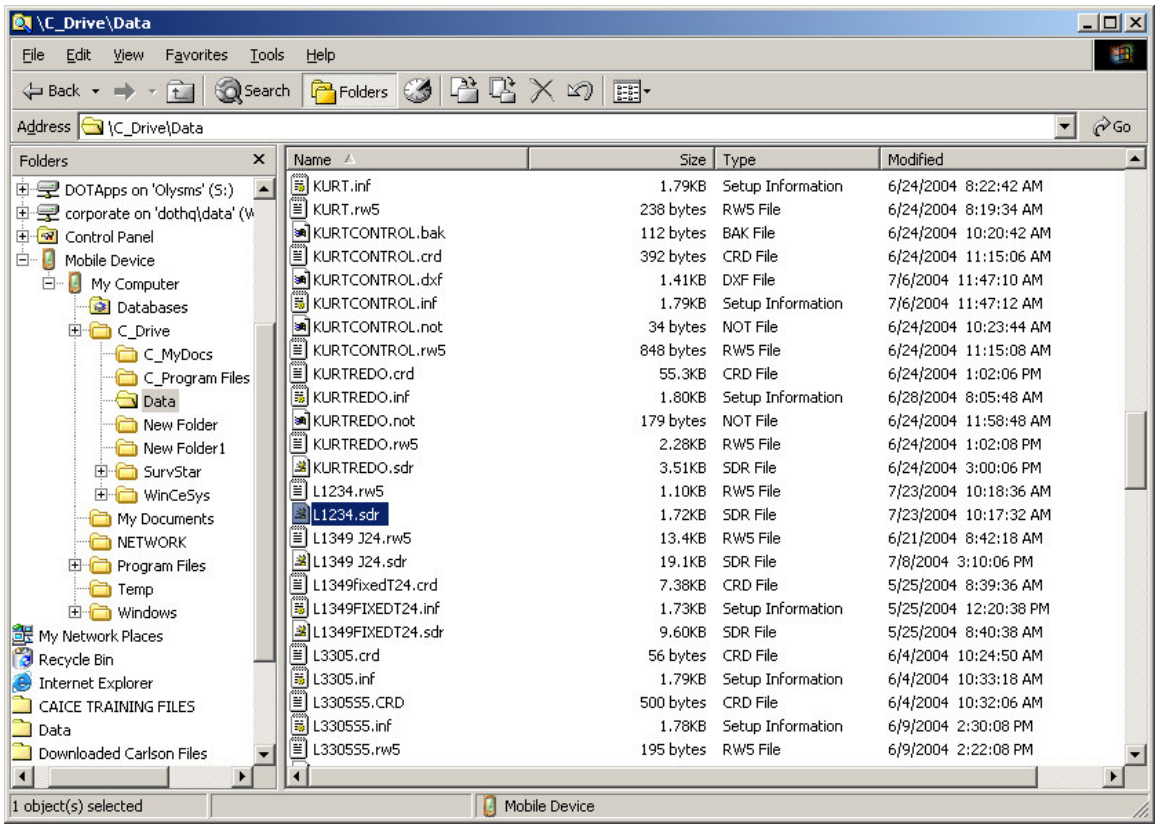
Double click “My Computer,” on your PC=>Double click, “Mobile Device,”=>Double click the “**C_Drive**” Icon in the Mobile Device path=>Then Double click on the “**Data**” folder=> Find where you saved the created SDR file, in this example, “**L1234.sdr**” as shown below. Left click on it to highlight it,



then Right click on the “.sdr” file and right click on “**Copy**.” In the other open Windows Explorer menu, navigate to where you want to SAVE this SDR file. I Save all of my “.sdr” files to one folder on my desktop, as shown below.

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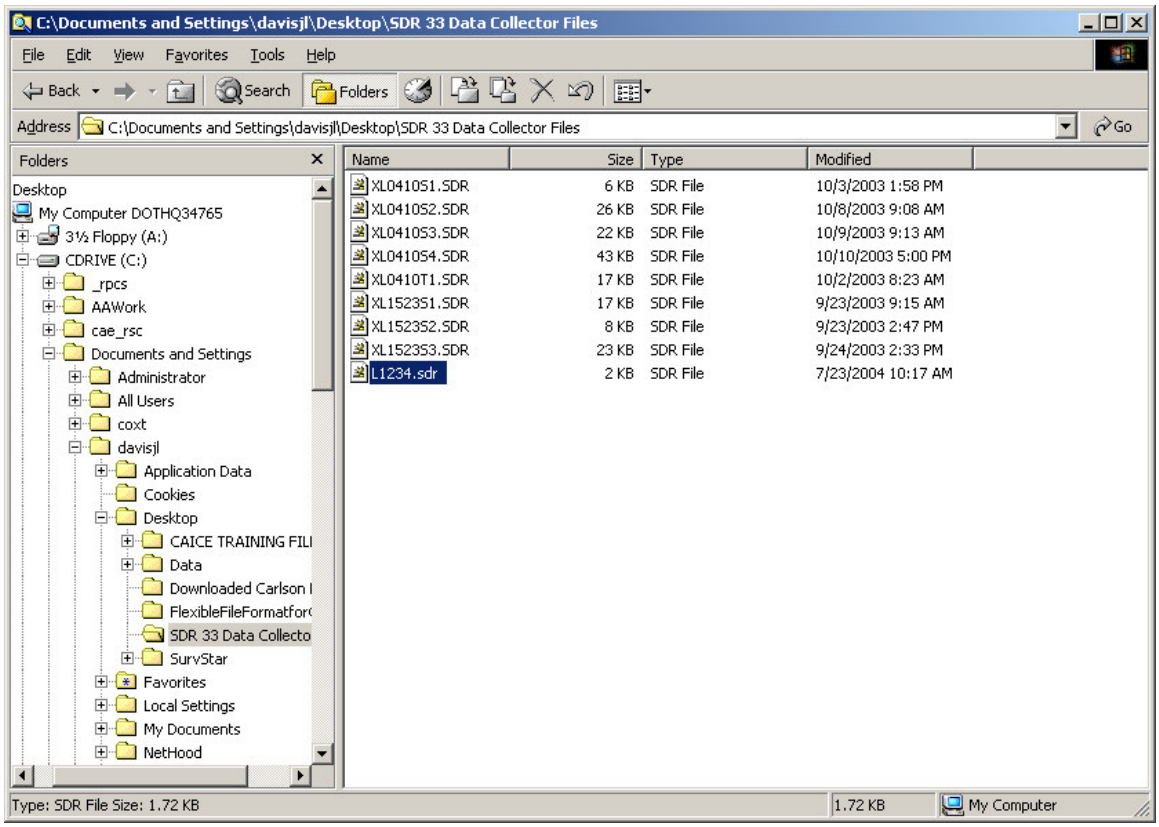

When you get to the folder you want, right click in the folder and hit, "**Paste**."

Depending what you named the file, you may need to make another copy so that You can import the Segment into CAiCE. For this file, I would make another copy of the ".sdr" file and rename it, "L1234S1.sdr." That way when I create my S1 segment in CAiCE it will import properly. One way to work around this would Be to create daily files keeping the main job number the same but adding the CAiCE "Segment" number to it.

For example, the job I create tomorrow would be **L1234S2.crd** and under the "**Job Settings**," "**Options**" tab I would check "**Use Control File**" and select my L1234.crd file from yesterday. When I'm finished topoging for the day I would have a L1234S2.rw5 file and once the "Data Transfer" is completed a L1234S2.sdr file will have been created. Once this L1234S2.sdr file is saved to the folder on my PC where I want it, I can import this file directly into CAiCE without renaming it.

Import, Edit, Analyze and Process as usual in CAiCE.

And that's all folks…

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HQ CAE
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